SCHOOL OF CIVIL ENGINEERING

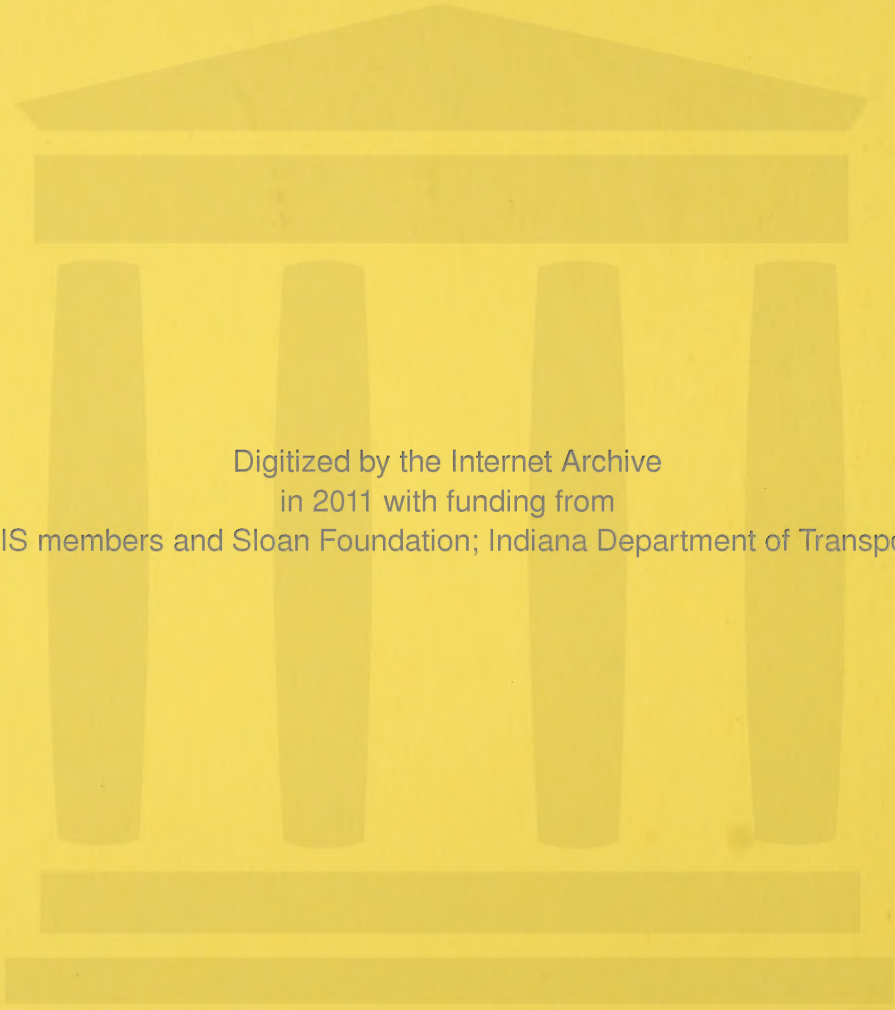
JOINT HIGHWAY RESEARCH PROJECT

FHWA/ISHC/JHRP-80/2

TRAFFIC SPEED REPORT NO. 111

R. P. Guenthner
G. K. Stafford

PURDUE UNIVERSITY
INDIANA STATE HIGHWAY COMMISSION



TRAFFIC SPEED REPORT NO. 111

TO: H. L. Michael, Director
Joint Highway Research Project

March 25, 1980

File: 8-3-3

FROM: R. P. Guenthner
Graduate Research Assistant
Joint Highway Research Project

Project: C-36-10C

The attached Progress Report No. 111 on Traffic Speeds in the report of the October-December, 1979 quarterly study of automobile and truck speeds on rural, tangent, level sections of Interstate, 4-lane and 2-lane and on urban interstate highways in Indiana. The report has been prepared by Mr. R. P. Guenthner, a Graduate Instructor in Research on our staff, with assistance from Ms. P. J. Tirschman, drafting assistant on our staff. The data collection was directed by Mr. G. K. Stafford of our staff. Professor H. L. Michael directed all phases of the study.

This is the third report which includes the analysis of the interim speed monitoring procedures which are required as a result of the Surface Transportation Act of 1978. Results of this study indicate a statewide average of 59.0 per cent of the vehicles traveling above the 55 mph speed limit. This is within the limits of 60 per cent required for the year ending September 30th, 1980 but not below the level of 50 per cent needed to qualify for an incentive grant.

Overall free flow results indicate that average speeds have increased slightly from the July-September, 1979 quarter. This increase has been mainly due to an increase in speed of passenger cars. However, as compared to other earlier quarters, recorded average speeds during this quarter were slightly lower.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment and acceptance as partial fulfillment of the objectives of this HPR Part I Study. Copies of the report are requested for release to the Indiana State Police and the Indiana Office of Traffic Safety as a normal procedure for these reports.

Respectfully submitted,

Richard P. Guenthner

Richard P. Guenthner
Graduate Research Assistant

RPG/mag

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Interim Report

TRAFFIC SPEED REPORT NO. 111

by

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Project No.: C-36-10C

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15. Supplementary Notes

Conducted in cooperation with the U. S. Department of Transportation, Federal Highway Administration under a planning study titled "Speed Trends for Indiana Highways".

16. Abstract

This report is another in the continuing study of speeds of vehicles on Indiana highways. Observations of spot speeds were taken on interstate, four-lane and two-lane highways throughout the state during the October-December 1979 quarter.

This report includes the analysis of the interim speed monitoring procedures which are required as a result of the Surface Transportation Act of 1978. Results of this indicate a statewide average of 59.0 per cent of the vehicles traveling above the 55 mph speed limit. While this value is higher than the 53.5 per cent recorded during the July-September 1979 quarter, it is lower than the values recorded during earlier quarters.

This report also includes analysis of free flow speeds. The recorded average of 57.3 mph represents a 0.5 mph increase from the July-September 1979 quarter. Most of this increase was due to an increase in speeds of passenger cars.

17. Key Words	18. Distribution Statement
Speeds, Highway Speeds, Rural Highway Speeds, Speed Trends, 55 mph Speed Effect	No restrictions. This document is available to the public through the National Technical Information Service, Springfield, Virginia 22161

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TRAFFIC SPEED REPORT NO. 111

Included here is an analysis of spot speed observations made during October-December 1979. All observations were made of vehicles on level, tangent sections of rural and urban highways during daylight and under favorable conditions. Observations of free flowing vehicles were made at all speed monitoring locations as has been done in the past. In compliance with the interim speed monitoring procedures which are required as a result of the Surface Transportation Act of 1978, additional data based on every nth vehicle were collected at specified locations to enable computation of required factors. This data collection procedure will be referred to as the "all vehicles" technique.

The speed monitoring stations for each highway classification are divided into two groups. The first group is identified as "primary control stations" and includes the same locations on selected Federal and State highways as used in each quarterly study. The second group of seven is selected at random for each quarterly study. A total of fourteen speed monitoring stations were used for the study reported herein.

Stations were classified as two-lane, four-lane, rural interstate, or urban interstate highways. A representative sample of free-flow vehicles was taken at every station. A similar sample using the "all vehicles" technique was taken at one primary control station and one random station for each highway classification. The site locations follow and are also shown in Figure 1.

RURAL INTERSTATE HIGHWAYS

+ *	RI-6	(I-65)	7.5 Miles North of SR 160
*	RI-21	(I-69)	1.6 Miles South of SR 18
	RI-13	(I-70)	1.2 Miles West of SR 59
+	RI-18	(I-70)	2.25 Miles East of I-465

FOUR - LANE HIGHWAY

*	4L-17	(US 52)	150 Feet East of CR 475 W
+ *	4L-32	(US 30)	2.9 Miles West of Wanatah City Limit Sign
+	4L-4	(US 41)	1.7 Miles North of SR 48
	4L-12	(US 50)	1.6 Miles East of SR 62

TWO - LANE HIGHWAY

+ *	2L-18	(US 35)	In Driveway of Cleo Glass Residence About 300 Yards West of 2.5 Miles East of I-69
*	2L-54	(US 231)	1.1 Miles South of SR 239
	2L-65	(SR 66)	3.1 Miles West of SR 165
+	2L-68	(SR 32)	1.85 Miles West of Winchester

URBAN INTERSTATE HIGHWAYS

*	UI-6	(I-65)	Just East of White River
+	UI-5	(I-465)	2.8 Miles West of US 32

* PRIMARY CONTROL STATIONS

\+ STATIONS AT WHICH DATA WAS COLLECTED USING THE "ALL VEHICLES" TECHNIQUE AS WELL AS USING THE FREE FLOW METHOD

The vehicles were classified as Indiana or Non-Indiana Passenger Cars and Light (less than 5000 lbs. gross weight) or heavy (equal to or more than 5000 lbs. gross weight) trucks. The analysis was performed as classified and combined, passenger cars or trucks.

The speed limit at all stations is 55 miles per hour.

Sample Size

A minimum of 200 vehicles in each direction were recorded using the free flow technique at each station. At least 25 of these vehicles were required to be heavy trucks.

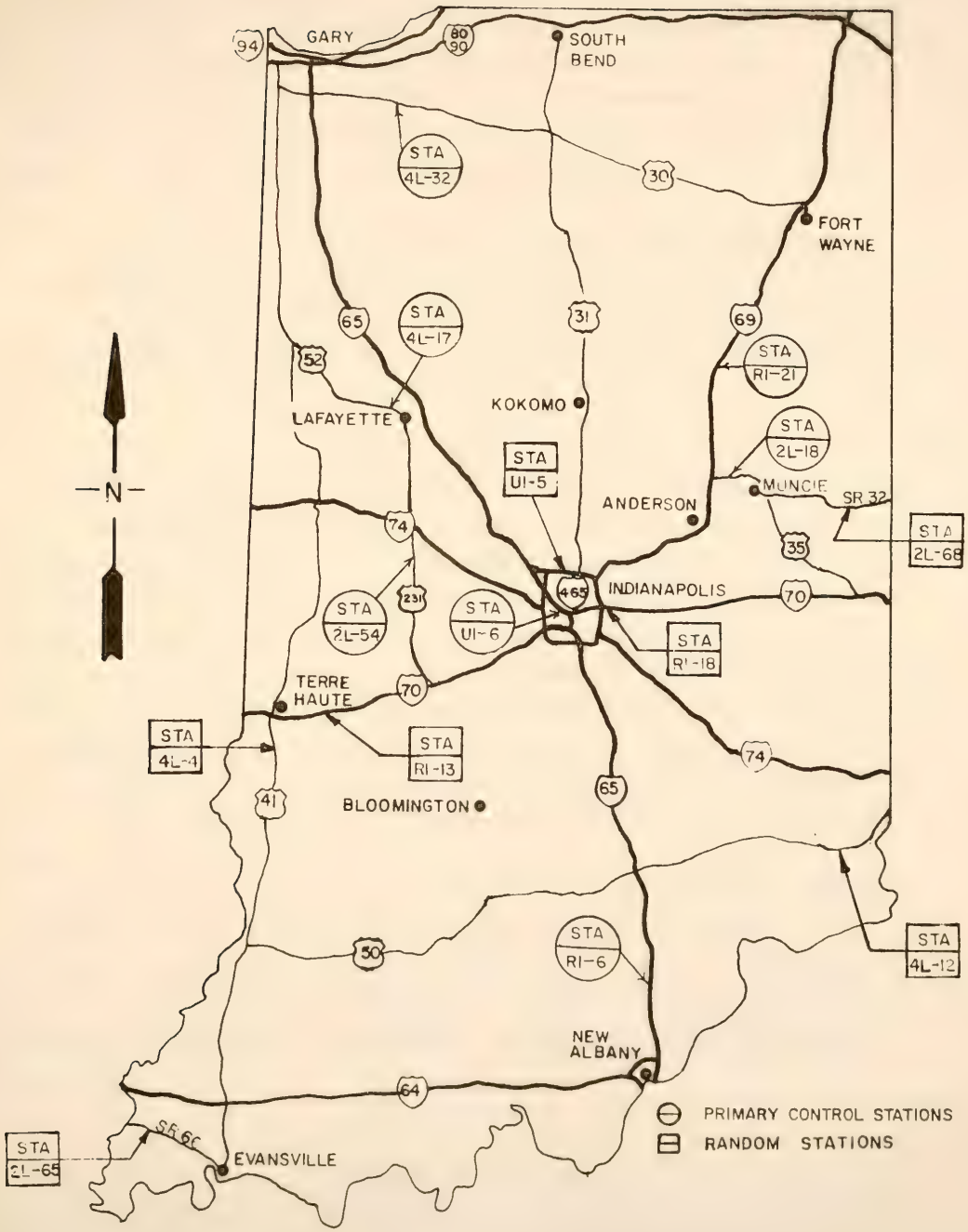

FIGURE 1— LOCATIONS OF SPEED—STUDY STATIONS

At the selected stations, an additional 200 vehicles in each direction were sampled using the "all vehicles" technique. For this technique, only speed data was recorded of each nth vehicle in the traffic stream. The traffic stream is all vehicles in one direction of movement if volume permits or by lane if high volumes require. If by lane, each lane was sampled for 15 minute periods and repeated until the sample required was obtained.

The value of n was 2 in all cases. If the nth vehicle speed could not be obtained, it was not recorded and the next nth vehicle was taken.

At stations where both sampling techniques were used, the two techniques were used interchangeably in 30 minute intervals until complete.

Equipment and Field Procedure

The observations for this study were obtained by use of a Radar Speed Meter. The meter was located in a van type vehicle parked as a disabled vehicle on the right shoulder or as a normally parked vehicle in an access driveway to the road. The van was equipped with one-way vision windows on the rear and side facing traffic so that approaching vehicles could not observe the speed measurement process. The observers were also equipped with CB radio equipment so as to monitor possible radio notification of the speed measurement and of police vehicles in the area. When any such incidents occurred speeds were not taken for at least a following 15 minute period. Such periods occurred less often than they have been in previous studies.

The speed was measured at a distance from the van so that the angle of measurement with the highway center line was always less than 10°. No corrections of speed were necessary at these small angles. The accuracy of the meter was checked at the beginning of each data recording session, every time the sampling technique was changed, and at other times when deemed necessary.

Results of Analysis

The data collected were analyzed and are summarized in the Appendix. Tables A 1 through A 14 include the data for the free flow data on each individual station. Tables A 15 through A 18 summarize the free flow data by highway classification. Table A 19 is the summary for all highways. Tables A 20 through A 31 summarize the data taken using the "all

vehicles" technique. Tables A 33 through A 53 present the same information in the FHWA format. Table A 32 summarizes the data taken by both methods. This table also includes the conversion factors between the two methods, as well as the state wide weighted compliance level.

The results of the free flow data expressed by highway classification and vehicle type are shown in Tables 1 through 9.

Analysis of Data from "All Traffic" Collection Technique

Conversion factors for allowing free-flow data to represent all traffic were done as prescribed in the FHWA document "Interim Speed Monitoring Procedures." These conversion factors were found by dividing a given statistic for all vehicles by the same statistic for free-flow. This was done by highway classification for, percent vehicles exceeding 55 mph, average speed, median speed, 85th percentile speed, percent exceeding 60 mph, and percent exceeding 65 mph. These factors are shown in Table A 32.

The computation for the weighted statewide compliance level (Percent vehicles exceeding 55 mph) is also shown in Table A 32. Computation of statewide averages for the other statistics was done using the same technique and weighting factors. These averages are also indicated in Table A 32.

A comparison of the weighted statewide compliance level and average speed is made with previsions quarters in Table 1. While these figures have only been computed during the last three quarters, computations for the earlier quarters was made for this report using the same method.

Conclusions

The overall results indicate that the vehicle speeds on Indiana highways have been higher during this quarter than during the July-September 1979 quarter. However, as compared to all other quarters during the past three years, the speeds have been slightly lower during this last quarter. An examination of Table 10 shows that other than the July-September 1979 quarter, the April-June 1976 quarter was the last time that either the average speed or percent exceeding 55 mph was lower than these statistics were during this quarter.

The free flow data indicates an overall average increase in speed of 0.5 mph to 57.2 mph. This increase may be attributed to increase in passenger car speeds. Passenger car speeds increased by 0.6 mph while

Table 1: Average Speeds (mph)

	Interstate Urban	Interstate Rural	Other Four Lane Rural	Two Lane Rural	All
Passenger Cars:					
Indiana	58.2	59.1	56.7	56.4	57.3
Non-Indiana	59.0	59.4	57.6	56.9	58.5
All Passenger Cars	58.3	59.2	56.8	56.5	57.5
85 Percentile (all)	61.9	63.5	61.2	61.0	62.0
Trucks:					
Less than 5000 lbs.	57.4	57.8	55.8	56.1	56.6
5000 lbs. or more	56.1	58.7	56.1	54.4	56.8
All Vehicles:					
Average	57.7	58.8	56.5	56.0	57.2
85 Percentile	61.6	63.0	61.1	60.8	61.8

Table 2: Percent of Vehicles Exceeding 55 mph

	Interstate Urban	Interstate Rural	Four Lane	Two Lane	All
Passenger Cars:					
Indiana	75.4	80.8	60.3	57.6	65.7
Non-Indiana	82.8	79.1	68.9	60.2	73.8
All Passenger Cars	76.5	80.2	61.2	57.9	67.2
Trucks:					
Less than 5000 lbs.	65.5	73.6	51.1	53.0	58.9
5000 lbs. or more	54.7	78.6	60.9	44.6	64.1
All Vehicles:	70.6	78.8	59.6	54.4	65.1

Table 3: Percent of Vehicles Exceeding 60 mph

	Interstate Urban	Interstate Rural	Other Four Lane Rural	Two Lane Rural	All
Passenger Cars:					
Indiana	29.6	33.0	21.0	19.7	24.2
Non-Indiana	31.0	37.3	24.4	20.3	30.6
All Passenger Cars	29.8	34.5	21.4	19.8	25.4
Trucks:					
Less than 5000 lbs.	21.1	29.3	18.6	21.9	22.5
5000 lbs. or more	19.9	32.9	21.4	13.9	24.4
All Vehicles:	26.5	33.3	21.0	19.1	24.7

Table 4: Percent of Vehicles Exceeding 65 mph

	Interstate		Other Four Lane	Two Lane	
	Urban	Rural	Rural	Rural	All
Passenger Cars:					
Indiana	3.9	8.8	3.9	4.6	5.0
Non-Indiana	5.7	10.9	5.0	3.0	7.5
All Passenger Cars	4.2	9.6	4.0	4.4	5.5
Trucks:					
Less than 5000 lbs.	6.3	4.8	3.4	5.1	4.7
5000 lbs. or more	3.1	7.6	2.6	1.2	4.5
All Vehicles:	4.3	8.3	3.6	3.9	5.1

Table 5: Comparison of the Overall Speed Results

	Oct-Dec 1979	July-Sept 1979	April-June 1979	Jan-March 1979
Average				
All Passenger Cars	57.5	56.9	57.4	58.3
Heavy Trucks	56.8	56.9	57.1	57.5
All Trucks	56.7	56.4	56.9	57.4
85 Percentile				
All Passenger Cars	62.0	61.3	61.6	63.1
Heavy Trucks	61.5	61.7	62.2	63.2
All Trucks	61.5	61.2	61.9	63.0
15 Percentile				
Heavy Trucks	51.0	51.2	51.4	51.1

Table 6: Average Speeds On Interstate Highways (URBAN)

	Oct-Dec 1979	July-Sept 1979	April-June 1979	Jan-March 1979
Passenger Cars:				
Indiana	58.2	56.7	57.2	58.8
Non-Indiana	59.0	56.9	59.0	59.2
All Passenger Cars	58.3	56.8	57.5	58.8
85 Percentile (all)	61.9	60.5	61.5	62.6
Trucks:				
Less than 5000 lbs.	57.4	56.6	57.5	57.9
5000 lbs. or more	56.1	56.4	57.0	56.9

Table 7: Average Speeds On Interstate Highways (RURAL)

	Oct-Dec 1979	July-Sept 1979	April-June 1979	Jan-March 1979
Passenger Cars:				
Indiana	59.1	58.5	59.6	60.4
Non-Indiana	59.4	59.0	59.2	60.4
All Passenger Cars	59.2	58.8	59.4	60.4
85 Percentile (all)	63.5	62.7	63.3	64.5
Trucks:				
Less than 5000 lbs.	57.8	58.0	58.1	59.1
5000 lbs. or more	58.7	59.1	59.5	60.4

Table 8: Average Speed On Other Four-Lane Highways

	Oct-Dec 1979	July-Sept 1979	April-June 1979	Jan-March 1979
Passenger Cars:				
Indiana	56.7	56.1	56.3	56.8
Non-Indiana	57.6	55.9	56.7	58.1
All Passenger Cars	56.8	56.1	56.3	56.9
85 Percentile (all)	61.2	60.7	60.4	62.1
Trucks:				
Less than 5000 lbs.	55.8	55.2	55.6	56.4
5000 lbs. or more	56.1	56.3	56.1	56.2

Table 9: Average Speeds on Two-Lane Highways

	Oct-Dec 1979	July-Sept 1979	April-June 1979	Jan-March 1979
Passenger Cars:				
Indiana	56.4	55.8	56.4	57.3
Non-Indiana	56.9	56.0	56.4	58.8
All Passenger Cars	56.5	55.8	56.4	57.4
85 Percentile (all)	61.0	60.2	61.0	62.8
Trucks:				
Less than 5000 lbs.	56.1	54.4	55.7	56.8
5000 lbs. or more	54.4	55.3	55.2	55.3

Table 10: Statewide Weighted Averages from Past Reports

Report No.	Date	Statewide Weighted Percent Vehicles Exceeding 55 mph	Statewide Weighted Average Speed
111	October-December 1979	59.0	56.4
110	July-September 1979	53.5	55.8
109	April-June 1979	62.3	56.9
108	January-March 1979	66.5	57.7
107	October-December 1978	68.9	57.9
106	July-September 1978	61.5	56.8
105	April-June 1978	66.0	57.6
104	January-March 1978	67.9	58.0
103	October-December 1977	69.9	58.3
102	July-September 1977	61.9	56.9
101	April-June 1977	65.8	57.6
100	January-March 1976	60.2	56.8
99	October-December 1976	59.1	56.7
98	July-September 1976	63.7	57.2
97	April-June 1976	57.1	56.2

light trucks speeds decreased by 0.2 mph and heavy truck speeds decreased by 0.1 mph. Vehicles on urban interstates showed the largest increase in speeds of 1.0 mph. Vehicles on rural interstates showed the smallest increase of only 0.1 mph.

The statewide weighted percent vehicles exceeding 55 mph was 59.0 percent. This value is below the 60 percent compliance level required by September 30, 1980 but is substancially above the 50 percent level required for an incentive grant.

Another significant note is that while the average speed increased by only 0.6 mph during this quarter, the percent vehicles exceeding 55 mph increased by 5.5 percent. This indicates that the statewide compliance level value is a highly sensitive statistic. This also indicates that the highway speeds are predominately in the 55-60 mph range. Only 20.1 percent are exceeding 60 mph. It should also be noted that the overall standard deviation is only 5.4 mph.

Small speed changes will have a significant effect on the percentage exceeding a specific numerical speed limit.

APPENDIX

TABLE A-1 SPEED DATA FREE FLOW

STATION RI-6 HIGHWAY I-65 LOCATION 7.5 miles North of State Road 160

NO. OF LANES 4 TYPE OF SURFACE Blacktop WEATHER Clear - Sunny

THIS OBSERVATION
DATE 12-5-79
TIME 10:25 - 11:55 AM NB
8:15 - 9:35 AM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 8-16-79
TIME 9:47 - 10:30 AM NB
8:33 - 9:30 AM SB

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		≤5 AXLES		>5 AXLES	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	250	210	96	123	154	87	173	216	71	60	102	156
AVE. SPEED (MPH)	59.20	58.87	58.80	58.37	59.40	59.57	58.20	59.00	57.10	57.87	59.00	59.43
STANDARD DEVIATION	4.355	4.436	3.992	3.872	4.552	5.073	4.966	4.672	5.811	4.200	4.135	4.780
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	.5	0	0	0	.6
44 MPH	0	0	0	0	0	0	.6	.5	1.4	0	0	.6
49 MPH	.8	2.4	0	.8	1.3	4.6	2.9	3.2	4.2	3.3	2.0	3.2
54 MPH	12.8	15.7	12.5	16.3	13.0	14.9	22.5	13.9	36.6	20.0	12.7	11.5
59 MPH	56.8	57.6	64.6	59.3	51.9	55.2	60.1	55.1	66.2	65.0	55.9	51.3
64 MPH	90.8	88.1	95.8	93.5	87.7	80.5	91.9	90.7	93.0	96.7	91.2	88.5
69 MPH	98.4	98.6	97.9	100.0	98.7	96.6	98.8	99.5	98.6	100.0	99.0	99.4
74 MPH	99.6	100.0	100.0	100.0	99.4	100.0	99.4	100.0	98.6	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	99.4	100.0	98.6	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	99.4	100.0	98.6	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	121	99	37	53	84	46	90	112	34	27	56	85
AVERAGE SPEED	58.70	59.05	58.50	58.51	58.70	59.67	58.60	59.63	57.00	59.19	59.60	59.76
DIRECTION SB												
NUMBER OF VEHICLES	129	111	59	70	70	41	83	104	37	33	46	71
AVERAGE SPEED	59.70	58.71	58.90	58.27	60.30	59.46	57.90	58.32	57.30	56.79	58.30	59.03

TABLE A-2 SPEED DATA FREE FLOW

STATION RI-21 HIGHWAY I-69 LOCATION 1.6 miles South of State Road 18

NO. OF LANES 4 TYPE OF SURFACE Blacktop WEATHER Cloudy - Windy

THIS OBSERVATION
DATE 12-11-79
TIME 9:40 - 10:40 AM NB
10:50 - 11:50 AM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 8-22-79
TIME 1:12 - 2:04 PM NB
2:16 - 3:05 PM SB

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	276	246	189	170	87	76	158	183	52	44	106	139
AVE. SPEED (MPH)	58.80	59.78	59.00	60.22	58.40	58.80	58.80	59.34	57.92	58.23	59.20	59.70
STANDARD DEVIATION	4.482	5.132	4.746	5.156	3.834	4.972	5.191	5.777	5.101	5.838	5.213	5.733
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT 44 MPH	0	0	0	0	0	0	.6	1.1	0	2.3	.9	.7
OF 49 MPH	.4	2.4	.5	2.4	0	2.6	5.7	7.1	7.7	9.1	4.7	6.5
VEHICLES 54 MPH	15.2	13.8	14.3	12.9	17.2	15.8	15.2	15.8	17.3	22.5	14.2	14.4
TRAVELING 59 MPH	61.2	51.6	61.9	47.6	59.8	60.5	55.1	48.6	65.4	56.8	50.0	46.0
AT OR 64 MPH	91.3	84.1	89.4	81.8	95.4	89.5	87.3	81.4	90.4	81.8	85.8	81.3
LESS THAN 69 MPH	97.5	95.9	96.8	96.5	98.9	94.7	99.4	97.3	100.0	97.7	99.1	97.1
74 MPH	99.3	99.6	98.9	99.4	100.0	100.0	100.0	99.5	100.0	100.0	100.0	99.3
79 MPH	100.0	99.6	100.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	133	135	91	101	42	34	86	89	28	19	58	61
AVERAGE SPEED	59.80	60.73	59.90	60.84	59.70	60.38	60.50	61.92	59.20	60.20	61.10	62.52
DIRECTION SB												
NUMBER OF VEHICLES	143	111	98	69	45	42	72	103	24	25	48	78
AVERAGE SPEED	57.90	58.63	58.20	59.30	57.10	57.52	56.70	57.34	56.50	56.88	56.90	57.49

TABLE A-3 SPEED DATA FREE FLOW

STATION RI-13 HIGHWAY I-70 LOCATION 1.2 miles West of State Road 59

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Cloudy

THIS OBSERVATION
DATE 12-12-79
TIME 11:40 AM - 12:36 PM EB
10:20 - 11:15 AM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	204	0	129	0	75	0	223	0	40	0	183
AVE. SPEED (MPH)	0	59.71	0	58.94	0	61.03	0	57.74	0	56.07	0	58.10
STANDARD DEVIATION	0	5.124	0	4.776	0	5.457	0	4.996	0	5.903	0	4.716
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	1.0	0	1.6	0	0	0	1.8	0	7.5	0	.5
49 MPH	0	1.5	0	2.3	0	0	0	6.3	0	12.5	0	4.9
54 MPH	0	13.7	0	15.5	0	10.7	0	20.6	0	22.5	0	19.1
59 MPH	0	52.0	0	58.1	0	41.3	0	65.9	0	80.0	0	62.8
64 MPH	0	83.3	0	87.6	0	76.0	0	92.8	0	95.0	0	93.4
69 MPH	0	97.1	0	98.4	0	94.7	0	98.7	0	100.0	0	98.4
74 MPH	0	99.5	0	100.0	0	98.7	0	100.0	0	100.0	0	100.0
79 MPH	0	99.5	0	100.	0	98.7	0	100.	0	100.	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	108	0	63	0	45	0	108	0	18	0	90
AVERAGE SPEED	0	60.14	0	59.08	0	61.62	0	58.75	0	57.11	0	59.08
DIRECTION WB												
NUMBER OF VEHICLES	0	96	0	66	0	30	0	115	0	22	0	93
AVERAGE SPEED	0	59.22	0	58.80	0	60.13	0	56.78	0	55.23	0	57.15

TABLE A-4 SPEED DATA FREE FLOW

STATION RI-18 HIGHWAY I-70 LOCATION 2.25 miles East of I-465

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Cloudy

THIS OBSERVATION
DATE 12-10-79
TIME 10:00 AM - 11:05 AM EB
11:58 AM - 1:05 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		≤5000 LBS.		≥5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	209	0	136	0	73	0	216	0	64	0	152
AVG. SPEED (MPH)	0	58.35	0	58.40	0	58.26	0	57.91	0	58.52	0	57.65
STANDARD DEVIATION	0	4.678	0	4.499	0	5.025	0	4.146	0	4.643	0	3.937
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	.5	0	1.6	0	0
49 MPH	0	2.4	0	2.2	0	2.7	0	2.8	0	3.1	0	2.6
54 MPH	0	14.8	0	14.0	0	16.4	0	17.6	0	15.6	0	18.4
59 MPH	0	65.1	0	66.2	0	63.0	0	64.8	0	56.3	0	68.4
64 MPH	0	93.8	0	94.9	0	91.8	0	94.4	0	90.6	0	96.1
69 MPH	0	98.1	0	98.5	0	97.3	0	99.5	0	98.4	0	100.0
74 MPH	0	98.1	0	98.5	0	97.3	0	100.0	0	100.0	0	100.0
79 MPH	0	99.5	0	99.3	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	84	0	62	0	22	0	126	0	40	0	86
AVERAGE SPEED	0	58.26	0	58.24	0	58.32	0	58.90	0	59.45	0	58.64
DIRECTION WB												
NUMBER OF VEHICLES	0	125	0	74	0	51	0	90	0	24	0	66
AVERAGE SPEED	0	58.41	0	58.53	0	58.24	0	56.52	0	56.96	0	56.36

TABLE A-5 SPEED DATA FREE FLOW

STATION 4L-17 HIGHWAY U.S. 52 LOCATION 150 Feet East of County Road 475 West

NO. OF LANES 4 TYPE OF SURFACE Blacktop WEATHER Clear

THIS OBSERVATION
DATE 11-19-79
TIME 9:17 - 10:58 AM EB
12:15 - 1:53 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 8-2-79
TIME 10:10 - 11:30 AM EB
12:11 - 1:32 PM WB

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	305	314	264	303	41	11	148	132	95	81	53	51
AVG. SPEED (MPH)	55.20	56.85	55.40	56.83	53.70	57.55	55.20	54.79	55.10	55.20	55.50	54.14
STANDARD DEVIATION	5.413	5.098	5.378	5.108	5.486	4.967	6.279	5.647	5.939	5.889	6.899	5.231
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	.3	.3	.4	.3	0	0	0	0	0	0	0	0
39 MPH	.3	1.0	.4	1.0	0	0	0	0	0	0	0	0
44 MPH	3.3	1.9	2.7	2.0	7.3	0	4.1	3.0	2.1	2.5	7.5	3.9
49 MPH	15.4	6.7	14.4	6.6	22.0	9.1	11.5	21.2	10.5	19.8	13.2	23.5
54 MPH	39.7	28.0	38.3	28.7	48.8	9.1	43.9	43.2	45.3	43.2	41.5	43.1
59 MPH	83.0	73.9	81.8	74.3	90.2	63.6	81.8	82.6	86.3	77.8	73.6	90.2
64 MPH	95.7	92.7	95.5	92.7	97.6	90.9	92.6	97.0	93.7	96.3	90.6	98.0
69 MPH	99.3	98.7	99.2	98.7	100.0	100.0	98.0	99.2	96.8	98.8	100.0	100.0
74 MPH	100.0	100.0	100.0	100.0	100.0	100.0	99.3	100.0	98.9	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	99.3	100.0	98.9	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	154	164	130	156	24	8	76	66	49	41	27	25
AVERAGE SPEED	55.70	57.62	56.00	57.63	54.10	57.50	55.80	56.52	55.70	57.10	56.00	55.56
DIRECTION WB												
NUMBER OF VEHICLES	151	150	134	147	17	3	72	66	46	40	26	26
AVERAGE SPEED	54.60	56.01	54.80	55.98	53.20	57.67	54.70	53.06	54.50	53.25	54.92	52.77

TABLE A-6 SPEED DATA FREE FLOW

STATION 4L-32 HIGHWAY U.S. 30 LOCATION 2.9 Miles West of Wanatah City Limit Sign

NO. OF LANES 4 TYPE OF SURFACE Blacktop WEATHER Clear

THIS OBSERVATION
DATE 11-20-79
TIME 1:15 - 2:50 PM EB
10:20 - 11:50 AM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 8-17-79
TIME 11:39 AM - 12:31 PM EB
10:37 - 11:30 AM WB

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	245	239	152	210	95	29	187	186	75	52	112	134
AVE. SPEED (MPH)	58.00	58.52	57.50	58.72	58.90	57.07	57.00	58.35	56.53	58.22	57.30	58.49
STANDARD DEVIATION	5.164	5.646	5.241	5.728	4.936	4.855	4.096	5.047	4.191	5.066	4.086	5.053
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	.5	0	0	0	.7
39 MPH	.4	.4	.7	.5	0	0	0	.5	0	0	0	.7
PERCENT 44 MPH	1.6	.8	2.0	.5	1.1	3.4	1.1	1.6	2.7	0	0	2.2
OF 49 MPH	5.3	4.6	6.7	3.8	3.2	10.3	3.7	3.2	4.0	3.8	3.6	3.0
VEHICLES 54 MPH	21.2	17.2	23.3	17.1	17.9	17.2	24.1	17.7	28.0	21.2	21.4	16.4
TRAVELING 59 MPH	60.0	61.1	66.0	60.5	50.5	65.5	75.9	57.0	80.0	61.5	73.2	55.2
AT OR 64 MPH	92.2	91.6	92.7	90.5	91.6	100.0	97.9	94.1	100.0	92.3	96.4	94.8
LESS THAN 69 MPH	98.4	97.1	98.7	96.7	97.9	100.0	100.0	98.9	100.0	98.1	100.0	99.3
74 MPH	99.6	98.7	100.0	98.6	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	99.6	100.0	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	99.6	100.0	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	99.6	100.0	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	127	115	73	91	54	24	87	98	31	32	56	68
AVERAGE SPEED	58.10	58.76	57.00	59.27	59.70	56.79	57.90	58.68	57.32	58.37	58.30	58.82
DIRECTION WB												
NUMBER OF VEHICLES	118	124	77	119	41	5	100	88	44	22	56	66
AVERAGE SPEED	57.90	58.30	57.90	58.29	57.90	58.40	56.10	57.99	55.92	57.55	56.30	58.14

TABLE A-7 SPEED DATA FREE FLOW

STATION 4L-4 HIGHWAY U.S. 41 LOCATION 1.7 Miles North of State Road 48

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Clear - Sunny

THIS OBSERVATION
DATE 12-3-79
TIME 11:00 AM - 12:17 PM NB
1: 40 - 2:55 PM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)
DATE 11-7-78
TIME 10:56 - 11:49 AM NB
12:01 - 12:57 PM SB

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	273	0	222	0	51	0	148	0	66	0	82
AVE. SPEED (MPH)	0	56.85	0	56.45	0	58.63	0	55.55	0	56.36	0	54.89
STANDARD DEVIATION	0	4.886	0	4.866	0	4.613	0	5.611	0	4.696	0	6.202
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	.7	0	0	0	1.2
39 MPH	0	0	0	0	0	0	0	1.4	0	0	0	2.4
PERCENT 44 MPH	0	.7	0	.9	0	0	0	5.4	0	1.5	0	8.5
OF 49 MPH	0	4.0	0	5.0	0	0	0	12.2	0	6.1	0	17.1
VEHICLES 54 MPH	0	30.4	0	33.3	0	17.6	0	35.8	0	37.9	0	34.1
TRAVELING 59 MPH	0	76.9	0	79.3	0	66.7	0	80.4	0	74.2	0	85.4
AT OR 64 MPH	0	95.6	0	97.7	0	86.3	0	97.3	0	97.0	0	97.6
LESS THAN 69 MPH	0	98.5	0	99.1	0	96.1	0	100.0	0	100.0	0	100.0
74 MPH	0	99.6	0	99.5	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	99.6	0	99.5	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES		124	0	94	0	30	0	84	0	36	0	48
AVERAGE SPEED	0	57.38	0	56.68	0	59.57	0	56.44	0	57.03	0	56.00
DIRECTION SB												
NUMBER OF VEHICLES	0	149	0	128	0	21	0	64	0	30	0	34
AVERAGE SPEED	0	56.42	0	56.27	0	57.29	0	54.38	0	55.57	0	53.32

TABLE A-8 SPEED DATA FREE FLOW

STATION 4L-12 HIGHWAY U.S. 50 LOCATION 1.6 Miles East of State Road 62

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Cloudy

THIS OBSERVATION
DATE 12-6-79
TIME 8:00 - 9:08 AM EB
9:40 - 11:05 AM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	244	0	216	0	28	0	148	0	65	0	83
AVE. SPEED (MPH)	0	54.89	0	54.70	0	56.29	0	54.26	0	54.03	0	54.45
STANDARD DEVIATION	0	5.395	0	5.301	0	5.993	0	5.815	0	5.742	0	5.900
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.4	0	.5	0	0	0	0	0	0	0	0
39 MPH	0	.4	0	.5	0	0	0	1.4	0	1.5	0	1.2
PERCENT 44 MPH	0	2.5	0	2.3	0	3.6	0	5.4	0	6.2	0	4.8
OF 49 MPH	0	13.5	0	13.9	0	10.7	0	17.6	0	21.5	0	14.5
VEHICLES 54 MPH	0	51.2	0	52.8	0	39.3	0	54.1	0	53.8	0	54.2
TRAVELING 59 MPH	0	81.1	0	82.4	0	71.4	0	81.1	0	83.1	0	79.5
AT OR 64 MPH	0	96.7	0	97.2	0	92.9	0	95.3	0	96.9	0	94.0
LESS THAN 69 MPH	0	99.2	0	99.5	0	96.4	0	100.0	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	142	0	140	0	2	0	69	0	38	0	31
AVERAGE SPEED	0	55.46	0	55.45	0	56.00	0	55.14	0	54.42	0	56.03
DIRECTION WB												
NUMBER OF VEHICLES	0	102	0	76	0	26	0	79	0	27	0	52
AVERAGE SPEED	0	54.09	0	53.33	0	56.31	0	53.49	0	53.48	0	53.50

TABLE A-9 SPEED DATA FREE FLOW

STATION 2L-18 HIGHWAY IL S. 35 LOCATION In Driveway of Cleo Glass Residence About 300 yards West of 2.5 Miles East of I-69

NO. OF LANES 2 TYPE OF SURFACE Blacktop WEATHER Clear

THIS OBSERVATION
DATE 11-27-79
TIME 10:50 AM - 2:50 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 8-22-79
TIME 10:33 AM - 12:36 PM

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	243	271	218	255	25	16	202	166	86	79	116	87
AVE. SPEED (MPH)	57.00	57.51	57.20	57.46	55.60	58.25	55.80	55.31	55.60	56.58	55.90	54.16
STANDARD DEVIATION	5.363	5.089	5.370	5.086	5.189	5.247	5.132	5.248	5.336	4.678	4.994	5.492
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.4	0	.4	0	0	0	0	0	0	0	0
39 MPH	0	.7	0	.8	0	0	2.0	1.2	2.3	1.3	1.7	1.1
PERCENT 44 MPH	.8	1.1	.5	1.2	4.0	0	2.5	3.0	2.3	1.3	2.6	4.6
OF 49 MPH	5.8	3.3	5.5	3.5	8.0	0	5.9	13.9	7.0	5.1	5.2	21.8
VEHICLES 54 MPH	30.5	24.7	28.4	25.1	48.0	18.8	39.6	39.2	43.0	27.8	37.1	49.4
TRAVELING 59 MPH	75.3	68.3	73.9	68.2	88.0	68.8	77.2	78.3	74.4	74.7	79.3	81.6
AT OR 64 MPH	93.8	90.8	94.0	90.6	92.0	93.8	96.0	98.2	97.7	97.5	94.8	98.9
LESS THAN 69 MPH	98.4	98.2	98.2	98.4	100.0	93.8	99.5	100.0	100.0	100.0	99.1	100.0
74 MPH	99.2	100.0	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	99.6	100.0	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	99.6	100.0	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	99.6	100.0	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	130	144	119	138	11	6	99	83	43	41	56	42
AVERAGE SPEED	56.50	57.38	56.80	57.42	53.80	56.50	56.00	55.07	56.50	56.39	55.62	53.79
DIRECTION WB												
NUMBER OF VEHICLES	113	127	99	117	14	10	103	83	43	38	60	45
AVERAGE SPEED	57.50	57.65	57.60	57.51	56.90	59.30	55.60	55.55	54.70	56.79	56.20	54.51

TABLE A-10 SPEED DATA FREE FLOW

STATION 2L-54 HIGHWAY U.S. 231 LOCATION 1.1 Miles South of State Road 234

NO. OF LANES 2 TYPE OF SURFACE Blacktop WEATHER Cloudy

THIS OBSERVATION
DATE 11-21-79
TIME 11:30 AM - 2:00 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 9-6-79
TIME 7:51 PM - 1:40 AM

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	282	262	282	245	0	17	153	183	71	85	82	98
AVE. SPEED (MPH)	56.20	57.10	56.20	57.07	0	57.59	55.80	56.14	54.10	56.79	57.20	55.58
STANDARD DEVIATION	5.844	5.089	5.844	5.162	0	3.985	5.604	6.157	5.775	6.525	5.669	5.795
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	.5	0	1.2	0	0
39 MPH	.4	0	.4	0	0	0	.7	.5	1.4	1.2	0	0
44 MPH	.7	.8	.7	.8	0	0	2.0	3.8	4.2	3.5	0	4.1
49 MPH	7.1	5.3	7.1	5.3	0	5.9	12.4	13.1	19.7	12.9	6.1	13.3
54 MPH	41.1	26.7	41.1	27.8	0	11.8	39.2	37.2	53.5	34.1	26.8	39.8
59 MPH	76.6	75.2	76.6	75.5	0	70.6	75.8	71.0	83.1	62.4	69.5	78.6
64 MPH	91.8	93.1	91.8	93.1	0	94.1	95.4	95.1	97.2	91.8	93.9	98.0
69 MPH	96.8	98.1	96.8	98.0	0	100.0	100.0	98.9	100.0	98.8	100.0	99.0
74 MPH	99.6	99.2	99.6	99.2	0	100.0	100.0	99.5	100.0	100.0	100.0	99.0
79 MPH	99.6	100.0	99.6	100.0	0	100.0	100.0	99.5	100.0	100.0	100.0	99.0
84 MPH	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	137	116	137	115	0	1	63	94	22	44	41	50
AVERAGE SPEED	56.70	57.97	56.70	57.93	0	62.00	54.70	56.62	53.10	57.55	55.60	55.80
DIRECTION SB												
NUMBER OF VEHICLES	145	146	145	130	0	16	90	89	49	41	41	48
AVERAGE SPEED	55.70	56.41	55.70	56.30	0	57.31	56.50	55.64	54.60	55.98	58.90	55.35

TABLE A-11 SPEED DATA FREE FLOW

STATION 2L-65 HIGHWAY SR 66 LOCATION 3.1 Miles West of State Road 156

NO. OF LANES 2 TYPE OF SURFACE Blacktop WEATHER Clear - Sunny

THIS OBSERVATION
DATE 12-4-79
TIME 8:20 AM - 12:50 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES		271		177		94		166		103		63
AVE. SPEED (MPH)	0	56.48	0	56.47	0	56.50	0	55.99	0	56.76	0	54.75
STANDARD DEVIATION	0	5.150	0	5.538	0	4.355	0	5.891	0	6.243	0	5.076
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT 44 MPH	0	.7	0	1.1	0	0	0	1.8	0	1.9	0	3.2
OF 49 MPH	0	7.4	0	9.0	0	4.3	0	14.5	0	13.6	0	15.9
VEHICLES 54 MPH	0	35.8	0	36.7	0	34.0	0	45.2	0	39.8	0	54.0
TRAVELING 59 MPH	0	73.1	0	72.3	0	74.5	0	72.3	0	66.0	0	82.5
AT OR 64 MPH	0	94.5	0	93.2	0	96.8	0	92.8	0	90.3	0	96.8
LESS THAN 69 MPH	0	99.3	0	98.9	0	100.0	0	98.2	0	97.1	0	100.0
74 MPH	0	99.6	0	99.4	0	100.0	0	99.4	0	99.0	0	100.0
79 MPH	0	99.6	0	99.4	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	147	0	73	0	74	0	78	0	52	0	26
AVERAGE SPEED	0	56.77	0	56.84	0	56.70	0	56.71	0	57.62	0	54.88
DIRECTION WB												
NUMBER OF VEHICLES	0	124	0	104	0	20	0	88	0	51	0	37
AVERAGE SPEED	0	56.14	0	56.21	0	55.75	0	55.36	0	55.88	0	54.65

TABLE A-12 SPEED DATA FREE FLOW

STATION 21-68 HIGHWAY SR 32 LOCATION 1.85 Miles West of Winchester

NO. OF LANES 2 TYPE OF SURFACE Blacktop WEATHER Cloudy

THIS OBSERVATION
DATE 11-28-79
TIME 8:15 AM - 1:30 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		≤25000 LBS.	≥25000 LBS.
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	288	0	282	0	6	0	151	0	67	0	84
AVE. SPEED (MPH)	0	54.98	0	54.92	0	57.50	0	53.49	0	53.85	0	53.20
STANDARD DEVIATION	0	5.160	0	5.175	0	3.886	0	5.784	0	5.450	0	6.054
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	1.4	0	1.4	0	0	0	1.3	0	0	0	2.4
PERCENT 44 MPH	0	2.8	0	2.8	0	0	0	7.3	0	1.5	0	11.9
OF 49 MPH	0	12.5	0	12.8	0	0	0	23.8	0	20.9	0	26.2
VEHICLES 54 MPH	0	45.1	0	45.7	0	16.7	0	57.0	0	62.7	0	52.4
TRAVELING 59 MPH	0	83.3	0	83.3	0	83.3	0	86.8	0	83.6	0	89.3
AT OR 64 MPH	0	98.3	0	98.2	0	100.0	0	97.4	0	94.0	0	100.0
LESS THAN 69 MPH	0	99.7	0	99.6	0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	133	0	130	0	3	0	80	0	30	0	50
AVERAGE SPEED	0	55.09	0	55.00	0	59.00	0	53.57	0	54.80	0	52.84
DIRECTION WB												
NUMBER OF VEHICLES	0	155	0	152	0	3	0	71	0	37	0	34
AVERAGE SPEED	0	54.88	0	54.86	0	56.00	0	53.39	0	53.08	0	53.74

TABLE A-13 SPEED DATA FREE FLOW

STATION UI-6 HIGHWAY I-65 LOCATION Just East of White River

NO. OF LANES 6 TYPE OF SURFACE Cement WEATHER Cloudy, Occasional Snow Flurries

THIS OBSERVATION
DATE 11-30-79
TIME 10:20 - 10:45 AM EB
10:55 - 11:18 AM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 8-21-79
TIME 11:10 - 11:42 AM NB
10:27 - 11:06 AM SB

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	279	288	203	248	76	40	154	137	77	71	77	66
AVE. SPEED (MPH)	57.70	57.91	57.90	57.94	57.20	57.75	57.10	55.83	57.30	56.90	57.00	54.68
STANDARD DEVIATION	4.504	4.187	4.681	4.267	3.986	3.692	4.992	5.164	5.069	4.748	4.942	5.378
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	.4	.3	.5	.4	0	0	.6	2.2	0	1.4	1.3	3.0
49 MPH	2.5	2.8	2.5	2.8	2.6	2.5	5.2	10.9	5.2	4.2	5.2	18.2
54 MPH	19.4	17.4	18.7	17.7	21.1	15.0	30.5	32.8	31.2	25.4	29.9	40.9
59 MPH	71.3	64.9	70.9	64.1	72.4	70.0	69.5	75.9	64.9	73.2	74.0	78.8
64 MPH	91.0	95.1	89.2	94.8	96.1	97.5	93.5	97.1	93.5	97.2	93.5	97.0
69 MPH	99.3	99.7	99.0	99.6	100.0	100.0	98.7	99.3	98.7	98.6	98.7	100.0
74 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	148	132	110	112	38	20	74	80	35	41	39	39
AVERAGE SPEED	57.90	57.92	57.90	57.91	57.90	58.00	57.30	55.65	57.20	57.00	57.40	54.23
DIRECTION WB												
NUMBER OF VEHICLES	131	156	93	136	38	20	80	57	42	30	38	27
AVERAGE SPEED	57.50	57.90	57.90	57.96	56.60	57.50	57.00	56.09	57.40	56.77	56.50	55.33

TABLE A-14 SPEED DATA FREE FLOW

STATION UI-5 HIGHWAY I-456 LOCATION 218 Miles West of U.S. 31 or Meridian Street

NO. OF LANES 6 TYPE OF SURFACE Cement WEATHER Cloudy

THIS OBSERVATION
DATE 11-26-79
TIME 10:10 - 10:36 AM EB
12:35 - 1:00 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)
DATE 11-20-78
TIME 10:07 - 10:50 AM EB
11:11 AM - 12:00 PM WB

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.	>5000 LBS.
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	PRESENT	PRESENT
NUMBER OF VEHICLES	0	262	0	215	0	47	0	166	71	95
AVE. SPEED (MPH)	0	58.77	0	58.47	0	60.11	0	57.41	57.94	57.01
STANDARD DEVIATION	0	4.339	0	4.335	0	4.140	0	4.791	4.807	4.766
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0
44 MPH	0	.4	0	.5	0	0	0	0	0	0
49 MPH	0	1.9	0	2.3	0	0	0	4.8	2.8	6.3
54 MPH	0	14.1	0	15.8	0	6.4	0	24.1	18.3	28.4
59 MPH	0	56.1	0	58.1	0	46.8	0	68.1	64.8	70.5
64 MPH	0	92.4	0	94.0	0	85.1	0	91.	89.7	92.6
69 MPH	0	99.2	0	99.5	0	97.9	0	98.8	97.2	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	100.0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	100.0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	100.0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	100.0	100.0
DIRECTION EB										
NUMBER OF VEHICLES	0	130	0	105	0	25	0	84	30	54
AVERAGE SPEED	0	59.54	0	59.33	0	60.40	0	58.85	60.20	58.20
DIRECTION WB										
NUMBER OF VEHICLES	0	132	0	110	0	22	0	82	41	41
AVERAGE SPEED	0	58.01	0	57.65	0	59.77	0	55.94	56.44	55.44

TABLE A-15 SPEED DATA FREE FLOW

STATION RIALL HIGHWAY Rural Interstate LOCATION See Individual Stations

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE Oct. - Dec. 1979
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE _____
TIME _____

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	869	0	558	0	311	0	838	0	208	0	630
AVE. SPEED (MPH)	0	59.20	0	59.07	0	59.43	0	58.46	0	57.80	0	58.67
STANDARD DEVIATION	0	4.890	0	4.703	0	5.209	0	4.935	0	5.100	0	4.865
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	.1	0	0	0	.2
PERCENT 44 MPH	0	.2	0	.4	0	0	0	1.0	0	2.4	0	.5
OF 49 MPH	0	2.2	0	2.0	0	2.6	0	4.9	0	6.7	0	4.3
VEHICLES 54 MPH	0	14.5	0	14.5	0	14.5	0	17.1	0	20.2	0	16.0
TRAVELING 59 MPH	0	56.4	0	57.2	0	55.0	0	59.1	0	63.5	0	57.6
AT OR 64 MPH	0	87.2	0	88.9	0	84.2	0	92.2	0	90.4	0	92.2
LESS THAN 69 MPH	0	97.4	0	98.2	0	95.8	0	98.8	0	99.0	0	98.7
74 MPH	0	99.3	0	99.5	0	99.0	0	99.9	0	100.0	0	99.8
79 MPH	0	99.7	0	99.6	0	99.7	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-16 SPEED DATA FREE FLOW

STATION 4LALL HIGHWAY 4-Lane LOCATION See Individual Stations

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE Oct. - Dec. 1979
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE _____
TIME _____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	1070	0	951	0	119	0	614	0	264	0	350
AVE. SPEED (MPH)	0	56.78	0	56.67	0	57.60	0	55.93	0	55.76	0	56.05
STANDARD DEVIATION	0	5.375	0	5.404	0	5.085	0	5.739	0	5.562	0	5.873
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.2	0	.2	0	0	0	.3	0	0	0	6
39 MPH	0	.5	0	.5	0	0	0	.8	0	.4	0	1.1
PERCENT 44 MPH	0	1.5	0	1.5	0	1.7	0	3.7	0	2.7	0	4.6
OF 49 MPH	0	7.1	0	7.3	0	5.9	0	12.7	0	13.6	0	12.0
VEHICLES 54 MPH	0	31.5	0	32.7	0	21.8	0	36.3	0	40.2	0	33.4
TRAVELING 59 MPH	0	73.5	0	74.2	0	67.2	0	73.9	0	75.0	0	73.1
AT OR 64 MPH	0	94.1	0	94.4	0	91.6	0	95.8	0	95.8	0	95.7
LESS THAN 69 MPH	0	98.4	0	98.5	0	97.5	0	99.5	0	99.2	0	99.7
74 MPH	0	99.6	0	99.6	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	99.8	0	99.8	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	99.9	0	99.9	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	99.9	0	99.9	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-17 SPEED DATA FREE FLOW

STATION 2LALL HIGHWAY 2-Lane LOCATION See Individual Stations

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE Oct - Dec 1979
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE _____
TIME _____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	1092	0	959	0	133	0	666	0	334	0	332
AVE. SPEED (MPH)	0	56.49	0	56.43	0	56.89	0	55.33	0	56.14	0	54.45
STANDARD DEVIATION	0	5.208	0	5.310	0	4.404	0	5.867	0	5.917	0	5.701
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.1	0	.1	0	0	0	.2	0	.3	0	.3
39 MPH	0	.5	0	.6	0	0	0	.8	0	.6	0	.9
PERCENT 44 MPH	0	1.4	0	1.6	0	0	0	3.9	0	1.8	0	6.0
OF 49 MPH	0	7.2	0	7.7	0	3.8	0	16.1	0	12.9	0	19.3
VEHICLES 54 MPH	0	33.3	0	34.0	0	28.6	0	44.1	0	40.1	0	48.2
TRAVELING 59 MPH	0	75.1	0	75.3	0	73.7	0	76.7	0	70.7	0	82.8
AT OR 64 MPH	0	94.2	0	94.0	0	96.2	0	95.8	0	93.1	0	98.5
LESS THAN 69 MPH	0	98.8	0	98.7	0	99.2	0	99.2	0	98.8	0	99.7
74 MPH	0	99.7	0	99.7	0	100.0	0	99.7	0	99.7	0	99.7
79 MPH	0	99.9	0	99.9	0	100.0	0	99.8	0	100.0	0	99.7
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-18 SPEED DATA FREE FLOW

STATION UIALL HIGHWAY Urban Interstate LOCATION See Individual Stations

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE Oct. - Dec. 1979
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE _____
TIME _____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES		550		463		87		303		142		161
AVE. SPEED (MPH)	0	58.32	0	58.19	0	59.02	0	56.70	0	57.42	0	56.06
STANDARD DEVIATION	0	4.277	0	4.303	0	4.092	0	5.017	0	4.790	0	5.140
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT 44 MPH	0	.4	0	.4	0	0	0	1.3	0	.7	0	1.2
OF 49 MPH	0	2.4	0	2.6	0	1.1	0	7.6	0	3.5	0	11.2
VEHICLES 54 MPH	0	15.8	0	16.8	0	10.3	0	28.1	0	21.8	0	33.5
TRAVELING 59 MPH	0	60.7	0	61.3	0	57.5	0	71.6	0	69.0	0	73.9
AT OR 64 MPH	0	93.8	0	94.4	0	90.8	0	93.7	0	93.0	0	94.4
LESS THAN 69 MPH	0	99.5	0	99.6	0	98.9	0	99.0	0	97.9	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-19 SPEED DATA FREE FLOW

STATION ALL HIGHWAY Indiana System LOCATION See Individual Stations

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE Oct - Dec 1979
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE _____
TIME _____

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		≤5000 LBS.		≥5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	3581	0	2931	0	650	0	2421	0	948	0	1473
AVE. SPEED (MPH)	0	57.51	0	57.29	0	58.52	0	56.72	0	56.59	0	56.81
STANDARD DEVIATION	0	5.174	0	5.187	0	4.995	0	5.579	0	5.540	0	5.605
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	.1
34 MPH	0	.1	0	.1	0	0	0	.1	0	.1	0	.5
39 MPH	0	.3	0	.4	0	0	0	.5	0	.3	0	.8
PERCENT 44 MPH	0	1.0	0	1.1	0	.3	0	2.5	0	2.2	0	2.8
OF 49 MPH	0	5.2	0	5.7	0	3.2	0	10.2	0	10.2	0	12.3
VEHICLES 54 MPH	0	25.5	0	27.2	0	18.2	0	30.8	0	33.0	0	29.3
TRAVELING 59 MPH	0	67.9	0	69.3	0	61.4	0	69.3	0	70.0	0	68.8
AT OR 64 MPH	0	92.4	0	93.2	0	88.9	0	93.6	0	93.2	0	93.8
LESS THAN 69 MPH	0	98.4	0	98.7	0	97.2	0	99.1	0	98.8	0	99.3
74 MPH	0	99.6	0	99.7	0	99.5	0	99.9	0	99.9	0	99.9
79 MPH	0	99.8	0	99.8	0	99.8	0	100.0	0	100.0	0	99.9
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-20 SPEED DATA ALL VEHICLE TECHNIQUE

STATION RI-6 HIGHWAY I-65 LOCATION 7.5 Miles North of State Road 160

NO. OF LANES 4 TYPE OF SURFACE Blacktop WEATHER Clear - Sunny

THIS OBSERVATION
DATE 12-5-79
TIME 10:53 AM - 1:05 PM NB
8:45 - 10:13 AM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		≥5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	201	0	100	0	101	0	220	0	51	0	169
AVE. SPEED (MPH)	0	58.49	0	56.99	0	59.97	0	58.89	0	56.61	0	59.57
STANDARD DEVIATION	0	4.726	0	4.029	0	4.912	0	4.792	0	4.327	0	4.723
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT 44 MPH	0	0	0	0	0	0	0	0	0	0	0	0
OF 49 MPH	0	3.0	0	4.0	0	2.0	0	3.2	0	5.9	0	2.4
VEHICLES 54 MPH	0	15.4	0	22.0	0	8.9	0	15.0	0	27.5	0	11.2
TRAVELING 59 MPH	0	62.2	0	76.0	0	48.5	0	55.9	0	72.5	0	50.9
AT OR 64 MPH	0	90.0	0	96.0	0	84.2	0	90.5	0	98.0	0	88.2
LESS THAN 69 MPH	0	98.5	0	100.0	0	97.0	0	98.6	0	100.0	0	98.2
74 MPH	0	99.5	0	100.0	0	99.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	88	0	28	0	60	0	122	0	24	0	98
AVERAGE SPEED	0	59.98	0	58.46	0	60.68	0	59.99	0	56.83	0	60.77
DIRECTION SB												
NUMBER OF VEHICLES	0	113	0	72	0	41	0	98	0	27	0	71
AVERAGE SPEED	0	57.33	0	56.42	0	58.93	0	57.51	0	56.41	0	57.93

TABLE A-21 SPEED DATA ALL VEHICLE TECHNIQUE

STATION RI-18 HIGHWAY I-70 LOCATION 2.25 Miles East of I-465

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Cloudy

THIS OBSERVATION
DATE 12-10-79
TIME 10:25 - 11:34 AM EB
12:31 - 1:30 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	214	0	132	0	82	0	206	0	63	0	143
AVE. SPEED (MPH)	0	57.59	0	56.88	0	58.73	0	56.52	0	56.79	0	56.40
STANDARD DEVIATION	0	4.308	0	4.137	0	4.358	0	4.618	0	4.193	0	4.803
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	.5	0	0	0	.7
39 MPH	0	0	0	0	0	0	0	.5	0	0	0	.7
PERCENT 44 MPH	0	0	0	0	0	0	0	1.5	0	0	0	2.1
OF 49 MPH	0	2.8	0	3.8	0	1.2	0	6.8	0	7.9	0	6.3
VEHICLES 54 MPH	0	21.5	0	24.2	0	17.1	0	30.1	0	28.6	0	30.8
TRAVELING 59 MPH	0	73.4	0	81.1	0	61.0	0	74.8	0	74.6	0	74.8
AT OR 64 MPH	0	93.0	0	93.9	0	91.5	0	97.6	0	96.4	0	97.2
LESS THAN 69 MPH	0	99.5	0	100.0	0	98.8	0	100.0	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	93	0	59	0	34	0	117	0	34	0	83
AVERAGE SPEED	0	57.98	0	57.49	0	58.82	0	58.09	0	58.24	0	58.04
DIRECTION WB												
NUMBER OF VEHICLES	0	121	0	73	0	48	0	89	0	29	0	60
AVERAGE SPEED	0	57.29	0	56.38	0	58.67	0	54.45	0	55.10	0	54.13

TABLE A-22 SPEED DATA ALL VEHICLE

STATION 41-32 HIGHWAY U.S. 30 LOCATION 2.9 Miles West of Wanatah City Limit Sign

NO. OF LANES 4 TYPE OF SURFACE Blacktop WEATHER Clear

THIS OBSERVATION
DATE 11-20-79
TIME 1:47 - 2:18, 2:50 - 3:49 PM EB
10:50 - 11:23, 11:50 AM - 12:53 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	-0	231	-0	206	-0	25	-0	193	-0	41	-0	152
AVE. SPEED (MPH)	-0	57.52	-0	57.66	-0	56.36	-0	57.40	-0	55.61	-0	57.89
STANDARD DEVIATION	-0	4.573	-0	4.519	-0	4.940	-0	5.686	-0	5.818	-0	5.571
24 MPH	-0	0	-0	0	-0	0	-0	0	-0	0	-0	0
29 MPH	-0	0	-0	0	-0	0	-0	0	-0	0	-0	0
34 MPH	-0	0	-0	0	-0	0	-0	0	-0	0	-0	0
39 MPH	-0	0	-0	0	-0	0	-0	2.1	-0	2.4	-0	2.0
PERCENT 44 MPH	-0	.4	-0	.5	-0	4.0	-0	3.1	-0	4.9	-0	2.6
OF 49 MPH	-0	2.6	-0	1.9	-0	8.0	-0	5.3	-0	17.1	-0	7.2
VEHICLES 54 MPH	-0	25.1	-0	25.2	-0	24.0	-0	24.4	-0	34.1	-0	21.7
TRAVELING 59 MPH	-0	67.1	-0	66.5	-0	72.0	-0	68.0	-0	75.6	-0	63.3
AT OR 64 MPH	-0	92.6	-0	92.2	-0	96.0	-0	95.3	-0	97.6	-0	94.7
LESS THAN 69 MPH	-0	99.1	-0	99.0	-0	100.0	-0	99.5	-0	100.0	-0	99.3
74 MPH	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0
79 MPH	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0
84 MPH	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0
89 MPH	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	-0	117	-0	105	-0	12	-0	94	-0	21	-0	73
AVERAGE SPEED	-0	57.36	-0	57.30	-0	57.92	-0	56.77	-0	55.67	-0	57.08
DIRECTION WB												
NUMBER OF VEHICLES	-0	114	-0	101	-0	13	-0	99	-0	20	-0	79
AVERAGE SPEED	-0	57.68	-0	58.03	-0	54.92	-0	58.01	-0	55.55	-0	58.63

TABLE A-23 SPEED DATA ALL VEHICLE

STATION 4L-4 HIGHWAY U.S. 41 LOCATION 1.7 Miles North of State Road 48

NO. OF LANES 4 TYPE OF SURFACE Blacktop WEATHER Clear - Sunny

THIS OBSERVATION
DATE 12-3-79
TIME 11:31 AM - 1:30 PM NB
1:40 PM - 3:35 PM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	271	0	234	0	37	0	141	0	69	0	72
AVE. SPEED (MPH)	0	57.00	0	56.96	0	57.22	0	56.58	0	56.64	0	56.53
STANDARD DEVIATION	0	5.093	0	5.098	0	5.127	0	5.472	0	4.838	0	6.047
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	1.4
39 MPH	0	.4	0	.4	0	0	0	.7	0	1.4	0	4.2
44 MPH	0	1.5	0	1.7	0	0	0	2.8	0	5.8	0	12.5
49 MPH	0	5.9	0	5.6	0	8.1	0	9.2	0	33.3	0	33.3
54 MPH	0	31.4	0	31.2	0	32.4	0	33.3	0	68.1	0	63.9
59 MPH	0	71.2	0	72.2	0	64.9	0	66.0	0	95.7	0	93.1
64 MPH	0	94.1	0	94.0	0	94.6	0	94.3	0	100.0	0	98.6
69 MPH	0	99.6	0	99.6	0	100.0	0	99.3	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	124	0	110	0	14	0	79	0	41	0	38
AVERAGE SPEED	0	57.85	0	57.65	0	59.36	0	57.34	0	57.32	0	57.37
DIRECTION SB												
NUMBER OF VEHICLES	0	147	0	124	0	23	0	62	0	28	0	34
AVERAGE SPEED	0	56.28	0	56.35	0	55.91	0	55.61	0	55.64	0	55.59

TABLE A-24 SPEED DATA ALL VEHICLE

STATION 2L-18 HIGHWAY U.S. 35 LOCATION In Driveway of Cleo Glass Residence Which is 300 yards West of 2.5 Miles East of I-69

NO. OF LANES 2 TYPE OF SURFACE Blacktop WEATHER Clear 11-27-79, Cloudy 12-11-79

THIS OBSERVATION
DATE 11-27-79, 12-11-79
TIME 11:23 AM - 4:00 PM (11-27)
12:20 - 1:15 PM (12-11)

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		≥5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	-0	284	-0	277	-0	7	-0	140	-0	61	-0	79
AVE. SPEED (MPH)	-0	56.12	-0	56.14	-0	55.14	-0	54.36	-0	55.11	-0	53.77
STANDARD DEVIATION	-0	5.320	-0	5.289	-0	6.866	-0	4.528	-0	4.152	-0	4.742
24 MPH	-0	0	-0	0	-0	0	-0	0	-0	0	-0	0
29 MPH	-0	0	-0	0	-0	0	-0	0	-0	0	-0	0
34 MPH	-0	0	-0	0	-0	0	-0	0	-0	0	-0	0
39 MPH	-0	0	-0	0	-0	0	-0	0	-0	0	-0	0
PERCENT 44 MPH	-0	.7	-0	.4	-0	14.3	-0	2.1	-0	1.6	-0	2.5
OF 49 MPH	-0	8.1	-0	7.9	-0	14.3	-0	12.1	-0	6.6	-0	16.5
VEHICLES 54 MPH	-0	40.1	-0	40.1	-0	42.9	-0	50.0	-0	42.6	-0	55.7
TRAVELING 59 MPH	-0	79.9	-0	79.8	-0	85.7	-0	89.3	-0	86.9	-0	91.1
AT OR 64 MPH	-0	94.4	-0	94.6	-0	85.7	-0	98.6	-0	98.4	-0	98.7
LESS THAN 69 MPH	-0	96.5	-0	96.4	-0	100.0	-0	100.0	-0	100.0	-0	100.0
74 MPH	-0	99.6	-0	99.6	-0	100.0	-0	100.0	-0	100.0	-0	100.0
79 MPH	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0
84 MPH	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0
89 MPH	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0	-0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	-0	143	-0	142	-0	1	-0	70	-0	32	-0	38
AVERAGE SPEED	-0	56.12	-0	56.13	-0	54.00	-0	54.83	-0	55.91	-0	53.92
DIRECTION WB												
NUMBER OF VEHICLES	-0	141	-0	135	-0	6	-0	70	-0	29	-0	41
AVERAGE SPEED	-0	56.11	-0	56.15	-0	55.33	-0	53.89	-0	54.24	-0	53.63

TABLE A-25 SPEED DATA ALL VEHICLE

STATION 2L-68 HIGHWAY SR 32 LOCATION 1.85 Miles West of Winchester

NO. OF LANES 2 TYPE OF SURFACE Blacktop WEATHER Cloudy

THIS OBSERVATION
DATE 11-28-79
TIME 8:45 AM - 3:35 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	288	0	283	0	5	0	136	0	73	0	63
AVE. SPEED (MPH)	0	54.76	0	54.67	0	59.40	0	53.21	0	55.30	0	50.78
STANDARD DEVIATION	0	5.641	0	5.604	0	6.465	0	6.279	0	5.818	0	5.947
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	3.7	0	0	0	7.9
PERCENT 44 MPH	0	4.5	0	4.6	0	0	0	10.3	0	4.1	0	17.5
OF 49 MPH	0	16.7	0	17.	0	0	0	22.8	0	13.7	0	33.3
VEHICLES 54 MPH	0	47.2	0	47.7	0	20.0	0	60.3	0	47.9	0	74.6
TRAVELING 59 MPH	0	83.0	0	83.7	0	40.0	0	86.8	0	80.8	0	93.7
AT OR 64 MPH	0	95.1	0	95.4	0	80.0	0	94.9	0	93.4	0	100.0
LESS THAN 69 MPH	0	99.7	0	99.6	0	100.0	0	99.3	0	98.6	0	100.0
74 MPH	0	99.7	0	99.6	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	132	0	131	0	1	0	77	0	41	0	36
AVERAGE SPEED	0	55.22	0	55.26	0	50.00	0	53.62	0	56.32	0	50.56
DIRECTION WB												
NUMBER OF VEHICLES	0	156	0	152	0	4	0	59	0	32	0	27
AVERAGE SPEED	0	54.37	0	54.17	0	61.75	0	52.66	0	54.20	0	51.07

TABLE A-26 SPEED DATA ALL VEHICLE

STATION UI- 5 HIGHWAY I-465 LOCATION 2.8 Miles West of U. S. 31

NO. OF LANES 6 TYPE OF SURFACE Cement WEATHER Cloudy

THIS OBSERVATION
DATE 11-26-79
TIME 10:37 AM - 12:07 PM EB
1:00 - 2:30 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	297	0	252	0	45	0	129	0	62	0	67
AVE. SPEED (MPH)	0	57.71	0	57.58	0	58.49	0	56.44	0	57.44	0	55.52
STANDARD DEVIATION	0	4.700	0	4.570	0	5.362	0	4.430	0	3.978	0	4.653
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	.8	0	0	0	1.5
49 MPH	0	4.7	0	5.6	0	0	0	3.9	0	1.6	0	6.0
54 MPH	0	21.5	0	21.8	0	20.0	0	27.1	0	17.7	0	35.8
59 MPH	0	67.3	0	68.3	0	62.2	0	79.8	0	74.2	0	85.1
64 MPH	0	93.9	0	94.4	0	91.1	0	96.9	0	95.2	0	98.5
69 MPH	0	99.3	0	100.0	0	95.6	0	100.0	0	100.0	0	100.0
74 MPH	0	99.7	0	100.0	0	97.8	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	143	0	118	0	25	0	67	0	33	0	34
AVERAGE SPEED	0	58.41	0	58.05	0	60.12	0	57.27	0	58.03	0	56.53
DIRECTION WB												
NUMBER OF VEHICLES	0	154	0	134	0	20	0	62	0	29	0	33
AVERAGE SPEED	0	57.06	0	57.16	0	56.45	0	55.55	0	56.76	0	54.48

TABLE A-27 SPEED DATA ALL VEHICLE

STATION RIALL HIGHWAY Rural Interstate LOCATION See Individual Stations

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE Oct. - Dec. 1979
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE _____
TIME _____

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	415	0	232	0	183	0	426	0	114	0	312
AVE. SPEED (MPH)	0	58.02	0	56.93	0	59.42	0	57.74	0	56.71	0	58.12
STANDARD DEVIATION	0	4.532	0	4.082	0	4.700	0	4.850	0	4.234	0	5.010
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	.2	0	0	0	.3
39 MPH	0	0	0	0	0	0	0	.2	0	0	0	.3
PERCENT 44 MPH	0	0	0	0	0	0	0	.7	0	0	0	1.0
OF 49 MPH	0	2.9	0	3.9	0	1.6	0	4.9	0	7.0	0	4.2
VEHICLES 54 MPH	0	18.6	0	23.3	0	12.6	0	22.3	0	28.1	0	20.2
TRAVELING 59 MPH	0	68.0	0	78.9	0	54.1	0	65.0	0	73.7	0	61.9
AT OR 64 MPH	0	91.6	0	94.8	0	87.4	0	93.9	0	98.2	0	92.3
LESS THAN 69 MPH	0	99.0	0	100.0	0	97.8	0	99.3	0	100.0	0	99.0
74 MPH	0	99.8	0	100.0	0	99.5	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-28 SPEED DATA ALL VEHICLE

STATION 4LALL HIGHWAY 4-Lane LOCATION See Individual Stations

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE Oct. - Dec. 1979
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE _____
TIME _____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	502	0	440	0	62	0	334	0	110	0	224
AVE. SPEED (MPH)	0	57.24	0	57.29	0	56.87	0	57.06	0	56.25	0	57.45
STANDARD DEVIATION	0	4.863	0	4.842	0	5.029	0	5.602	0	5.222	0	5.750
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	.2	0	.2	0	0	0	1.5	0	.9	0	1.8
PERCENT 44 MPH	0	1.0	0	.9	0	1.6	0	3.0	0	2.7	0	3.1
OF 49 MPH	0	4.4	0	3.9	0	8.1	0	9.3	0	10.0	0	8.9
VEHICLES 54 MPH	0	28.5	0	28.4	0	29.0	0	28.1	0	33.6	0	25.4
TRAVELING 59 MPH	0	69.3	0	69.5	0	67.7	0	61.4	0	70.9	0	56.7
AT OR 64 MPH	0	93.4	0	93.2	0	95.2	0	94.9	0	96.4	0	94.2
LESS THAN 69 MPH	0	99.4	0	99.3	0	100.0	0	99.4	0	100.0	0	99.1
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-29 SPEED DATA ALL VEHICLE

STATION 2LALL HIGHWAY 2-Lane LOCATION See Individual Stations

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION
DATE Oct. - Dec. 1979
TIME

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		≥5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	572	0	560	0	12	0	276	0	134	0	142
AVG. SPEED (MPH)	0	55.43	0	55.40	0	56.92	0	53.79	0	55.22	0	52.44
STANDARD DEVIATION	0	5.521	0	5.495	0	6.762	0	5.482	0	5.110	0	5.497
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	1.8	0	0	0	3.5
PERCENT 44 MPH	0	2.6	0	2.5	0	8.3	0	6.2	0	3.0	0	9.2
OF 49 MPH	0	12.4	0	12.5	0	8.3	0	17.4	0	10.4	0	23.9
VEHICLES 54 MPH	0	43.7	0	43.9	0	33.3	0	55.1	0	45.5	0	64.1
TRAVELING 59 MPH	0	81.5	0	81.8	0	66.7	0	88.0	0	83.6	0	92.3
AT OR 64 MPH	0	94.8	0	95.0	0	83.3	0	96.7	0	94.0	0	99.3
LESS THAN 69 MPH	0	98.1	0	98.0	0	100.0	0	99.6	0	99.3	0	100.0
74 MPH	0	99.7	0	99.6	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-30 SPEED DATA

STATION UIALL HIGHWAY Urban Interstate LOCATION See Individual Stations

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE Oct. - Dec. 1979
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE _____
TIME _____

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		≤5000 LBS.		≥5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	297	0	252	0	45	0	129	0	62	0	67
AVG. SPEED (MPH)	0	57.71	0	57.58	0	58.49	0	56.44	0	57.44	0	55.52
STANDARD DEVIATION	0	4.700	0	4.570	0	5.362	0	4.430	0	3.978	0	4.653
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	.8	0	0	0	1.5
44 MPH	0	0	0	0	0	0	0	3.9	0	1.6	0	6.0
49 MPH	0	4.7	0	5.6	0	0	0	27.1	0	17.7	0	35.8
54 MPH	0	21.5	0	21.8	0	20.0	0	79.8	0	74.2	0	85.1
59 MPH	0	67.3	0	68.3	0	62.2	0	96.9	0	95.2	0	98.5
64 MPH	0	93.9	0	94.4	0	91.1	0	100.0	0	100.0	0	100.0
69 MPH	0	99.3	0	100.0	0	95.6	0	100.0	0	100.0	0	100.0
74 MPH	0	99.7	0	100.0	0	97.8	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-31 SPEED DATA

STATION ALL HIGHWAY Indiana System LOCATION See Individual Stations

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE Oct. - Dec. 1979
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE _____
TIME _____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		≥5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	1786	0	1484	0	302	0	1165	0	420	0	745
AVE. SPEED (MPH)	0	56.92	0	56.57	0	58.66	0	56.47	0	56.22	0	56.60
STANDARD DEVIATION	0	5.093	0	5.031	0	5.049	0	5.405	0	4.839	0	5.713
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	.1	0	0	0	.1
39 MPH	0	.1	0	.1	0	0	0	.9	0	.2	0	1.3
44 MPH	0	1.1	0	1.2	0	.7	0	2.7	0	1.7	0	3.6
49 MPH	0	6.7	0	7.4	0	3.0	0	9.0	0	8.1	0	9.5
54 MPH	0	29.9	0	32.3	0	17.9	0	32.3	0	33.6	0	31.5
59 MPH	0	72.6	0	75.4	0	58.6	0	71.1	0	76.2	0	68.2
64 MPH	0	93.5	0	94.3	0	89.4	0	95.2	0	96.0	0	94.8
69 MPH	0	98.9	0	99.1	0	98.0	0	99.5	0	99.8	0	99.3
74 MPH	0	99.8	0	99.9	0	99.3	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

SPEED SUMMARY REPORT

Send to Office of Highway Planning HHP-44
QUARTERLY REPORT- CALENDAR QUARTER ENDING December 31, 1979

STATE Indiana (State Code, Quarter, Year)

SYSTEM	CARD NO.	VMT WEIGHTING FACTOR	MILES	No. of SESSIONS	No. of VEHICLES OBSERVED	DATA TYPE	PERCENT EXCEEDING 55 MPH	SPEED AVE.	SPEED MEDIAN	SPEED 85th PER-CENTILE	PERCENT EXCEEDING 60 MPH	PERCENT EXCEEDING 65 MPH
	(1-2)	(8-11)	(12-17)	(18-20)	(21-26)		(27-30)	(31-34)	(35-38)	(39-42)	(43-46)	(47-50)
INTERSTATE URBAN	12	1.65	218.	2	853	Free Flow	70.6	57.7	57.2	61.6	26.5	4.3
	13					All Vehicle Factor	977	993	995	997	860	1093
	14					All Vehicles	69.0	57.3	56.9	61.4	22.9	4.7
INTERSTATE RURAL	22	2.51	849.	4	1707	Free Flow	78.8	58.8	58.2	63.0	33.3	8.3
	23					All Vehicle Factor	902	984	985	981	796	651
	24					All Vehicles	71.7	57.9	57.3	61.8	26.5	5.4
MULTI-LANE DIVIDED	32	1.70	657.	4	1684	Free Flow	59.6	56.4	56.3	61.1	21.0	3.6
	33					All Vehicle Factor	1078	1014	1010	1006	1181	1194
	34					All Vehicles	64.3	57.2	56.9	61.5	24.8	4.3
MULTI-LANE DIVIDED (included in multi-lane divided classification)	42					Free Flow						
	43					All Vehicle Factor						
	44					All Vehicles						
TWO LANE RURAL	52	4.14	8030.	4	1758	Free Flow	54.4	56.0	55.0	60.8	19.1	3.9
	53					All Vehicle Factor	831	980	987	977	686	872
	54					All Vehicles	45.2	54.9	54.3	59.4	13.1	3.4
STATEWIDE TOTALS	64	1.000	9754.	14	6002	All Vehicles	59.0	56.4	55.9	60.7	20.1	4.3

PERCENT OF TOTAL STATEWIDE VMT ON FACILITIES WITH 55 MPH SPEED LIMITS. (51 52 53 54)

TABLE A-33

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-6 LOCATION I-65, 7.5 mi. north of SR 160

NUMBER OF SESSIONS 1 DATES 12/5/79 VEHICLES MEASURED 426

AVERAGE SPEED (MPH) 58.9 STANDARD DEVIATION 4.6

MEDIAN SPEED (MPH) 58.3 85TH PERCENTILE SPEED (MPH) 63.0

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 81. 60 MPH 34. 65 MPH 7.

TABLE A-34

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-21 LOCATION I-69; 1.6 mi. south of SR 18

NUMBER OF SESSIONS 1 DATES 12/11/79 VEHICLES MEASURED 429

AVERAGE SPEED (MPH) 59.6 STANDARD DEVIATION 5.4

MEDIAN SPEED (MPH) 59.0 85TH PERCENTILE SPEED (MPH) 64.5

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 81. 60 MPH 41. 65 MPH 13.

TABLE A-35

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-13 LOCATION I-70; 1.2 mi. west of SR 59

NUMBER OF SESSIONS 1 DATES 12/12/79 VEHICLES MEASURED 427

AVERAGE SPEED (MPH) 58.7 STANDARD DEVIATION 5.1

MEDIAN SPEED (MPH) 58.0 85TH PERCENTILE SPEED (MPH) 63.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 78. 60 MPH 33. 65 MPH 9.

TABLE A-36

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-18 LOCATION I-70; 2.25 mi. east of I-465

NUMBER OF SESSIONS 1 DATES 12/10/79 VEHICLES MEASURED 425

AVERAGE SPEED (MPH) 58.1 STANDARD DEVIATION 4.4

MEDIAN SPEED (MPH) 57.5 85TH PERCENTILE SPEED (MPH) 61.7

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 76. 60 MPH 25. 65 MPH 4.

TABLE A-37

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-17 LOCATION US 52; 150' east of Co. Rd. 475W

NUMBER OF SESSIONS 1 DATES 11/19/79 VEHICLES MEASURED 446

AVERAGE SPEED (MPH) 56.2 STANDARD DEVIATION 5.3

MEDIAN SPEED (MPH) 56.0 85TH PERCENTILE SPEED (MPH) 60.5

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 58. 60 MPH 18. 65 MPH 4.

TABLE A-38

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-32 LOCATION US 30; 2.9 west of Wanatah City Limit sign

NUMBER OF SESSIONS 1 DATES 11/20/79 VEHICLES MEASURED 425

AVERAGE SPEED (MPH) 58.4 STANDARD DEVIATION 5.4

MEDIAN SPEED (MPH) 58.1 85TH PERCENTILE SPEED (MPH) 62.4

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 76. 60 MPH 32. 65 MPH 5.

TABLE A-39

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-4 LOCATION US 41; 1.7 mi. north of SR 46

NUMBER OF SESSIONS 1 DATES 12/3/79 VEHICLES MEASURED 421

AVERAGE SPEED (MPH) 56.4 STANDARD DEVIATION 5.2

MEDIAN SPEED (MPH) 56.3 85TH PERCENTILE SPEED (MPH) 60.7

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 60. 60 MPH 18. 65 MPH 2.

TABLE A-40

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-12 LOCATION US 50; 1.6 mi. east of SR 62

NUMBER OF SESSIONS 1 DATES 12/6/79 VEHICLES MEASURED 392

AVERAGE SPEED (MPH) 54.7 STANDARD DEVIATION 5.6

MEDIAN SPEED (MPH) 53.7 85TH PERCENTILE SPEED (MPH) 60.0

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 43. 60 MPH 15. 65 MPH 2.

TABLE A-41

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-18 LOCATION US 35; 2.5 mi. east of I-69, Cleo Glass Residence

NUMBER OF SESSIONS 1 DATES 11/27/79 VEHICLES MEASURED 437

AVERAGE SPEED (MPH) 56.7 STANDARD DEVIATION 5.3

MEDIAN SPEED (MPH) 56.1 85TH PERCENTILE SPEED (MPH) 61.0

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 61.0 60 MPH 21.0 65 MPH 4.0

TABLE A-42

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 21-54 LOCATION U.S. 231; 1.1 mi. south of SR 234

NUMBER OF SESSIONS 1 DATES 11/21/79 VEHICLES MEASURED 445

AVERAGE SPEED (MPH) 56.7 STANDARD DEVIATION 5.6

MEDIAN SPEED (MPH) 56.2 85TH PERCENTILE SPEED (MPH) 61.4

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 59. 60 MPH 22. 65 MPH 5.

TABLE A-43

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-65 LOCATION SR 66; 3.1 mi. west of SR 165

NUMBER OF SESSIONS 1 DATES 12/4/79 VEHICLES MEASURED 437

AVERAGE SPEED (MPH) 56.3 STANDARD DEVIATION 5.4

MEDIAN SPEED (MPH) 55.7 85TH PERCENTILE SPEED (MPH) 62.9

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 54.0 60 MPH 22.0 65 MPH 5.0

TABLE A-44

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-68 LOCATION SR 32; 1.85 mi. west of Winchester

NUMBER OF SESSIONS 1 DATES 11/28/79 VEHICLES MEASURED 439

AVERAGE SPEED (MPH) 54.5 STANDARD DEVIATION 5.4

MEDIAN SPEED (MPH) 54.1 85TH PERCENTILE SPEED (MPH) 59.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 44.0 60 MPH 12.0 65 MPH 1.0

TABLE A-45

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY INTERSTATE, URBAN

STATION NUMBER UI-6 LOCATION I-65; just east of White River

NUMBER OF SESSIONS 1 DATES 11/30/79 VEHICLES MEASURED 425

AVERAGE SPEED (MPH) 57.2 STANDARD DEVIATION 4.6

MEDIAN SPEED (MPH) 56.8 85TH PERCENTILE SPEED (MPH) 61.4

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 68. 60 MPH 22. 65 MPH 3.

TABLE A-46

SPEED MONITORING STATION SUMMARY - Free Flow

HIGHWAY CATEGORY INTERSTATE, URBAN

STATION NUMBER UI-5 LOCATION I-465; 2.8 mi. west of U.S. 31 (Meridian St.)

NUMBER OF SESSIONS 1 DATES 11/26/79 VEHICLES MEASURED 428

AVERAGE SPEED (MPH) 58.2 STANDARD DEVIATION 4.6

MEDIAN SPEED (MPH) 57.6 85TH PERCENTILE SPEED (MPH) 61.9

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 73. 60 MPH 31. 65 MPH 6.

TABLE A-47

SPEED MONITORING STATION SUMMARY - Every 2nd Vehicle

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-6 LOCATION I-65; 7.5 mi. north of SR 160

NUMBER OF SESSIONS 1 DATES 12/5/79 VEHICLES MEASURED 421

AVERAGE SPEED (MPH) 58.7 STANDARD DEVIATION 4.8

MEDIAN SPEED (MPH) 57.9 85TH PERCENTILE SPEED (MPH) 63.0

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 77. 60 MPH 35. 65 MPH 7.

TABLE A-48

SPEED MONITORING STATION SUMMARY - Every 2nd Vehicle

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-18 LOCATION I-70; 2.25 mi. east of I-465

NUMBER OF SESSIONS 1 DATES 12/10/79 VEHICLES MEASURED 420

AVERAGE SPEED (MPH) 57.1 STANDARD DEVIATION 4.5

MEDIAN SPEED (MPH) 56.7 85TH PERCENTILE SPEED (MPH) 60.6

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 66. 60 MPH 18. 65 MPH 4.

TABLE A-49

SPEED MONITORING STATION SUMMARY - Every 2nd Vehicle

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-32 LOCATION US 30; 2.9 mi. west of Wanatah City Limit sign

NUMBER OF SESSIONS 1 DATES 11/20/79 VEHICLES MEASURED 424

AVERAGE SPEED (MPH) 57.5 STANDARD DEVIATION 5.1

MEDIAN SPEED (MPH) 57.1 85TH PERCENTILE SPEED (MPH) 61.7

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 67. 60 MPH 27. 65 MPH 4.

TABLE A-50

SPEED MONITORING STATION SUMMARY - Every 2nd Vehicle

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-4 LOCATION US 41; 1.7 mi. north of SR 48

NUMBER OF SESSIONS 1 DATES 12/3/79 VEHICLES MEASURED 412

AVERAGE SPEED (MPH) 56.9 STANDARD DEVIATION 5.2

MEDIAN SPEED (MPH) 56.7 85TH PERCENTILE SPEED (MPH) 61.3

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 62. 60 MPH 22. 65 MPH 4.

TABLE A-51

SPEED MONITORING STATION SUMMARY - Every 2nd Vehicle

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-18 LOCATION US 35; 2.5 mi. east of I-69

NUMBER OF SESSIONS 1 DATES 11/27/79 & 12/11/79 VEHICLES MEASURED 424

AVERAGE SPEED (MPH) 55.5 STANDARD DEVIATION 5.1

MEDIAN SPEED (MPH) 54.7 85TH PERCENTILE SPEED (MPH) 59.6

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 47. 60 MPH 13. 65 MPH 4.

TABLE A-52

SPEED MONITORING STATION SUMMARY - Every 2nd Vehicle

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-68 LOCATION SR 32; 1.85 mi. west of Winchester

NUMBER OF SESSIONS 1 DATES 11/28/79 VEHICLES MEASURED 424

AVERAGE SPEED (MPH) 54.3 STANDARD DEVIATION 5.9

MEDIAN SPEED (MPH) 53.8 85TH PERCENTILE SPEED (MPH) 59.3

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 43. 60 MPH 13. 65 MPH 3.

TABLE A-53

SPEED MONITORING STATION SUMMARY - Every 2nd Vehicle

HIGHWAY CATEGORY INTERSTATE, URBAN

STATION NUMBER UI-5 LOCATION I-465; 2.8 mi. west of US 31

NUMBER OF SESSIONS 1 DATES 11/26/79 VEHICLES MEASURED 426

AVERAGE SPEED (MPH) 57.3 STANDARD DEVIATION 4.7

MEDIAN SPEED (MPH) 56.9 85TH PERCENTILE SPEED (MPH) 61.4

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 69. 60 MPH 23. 65 MPH 5.

COVER DESIGN BY ALDO GIORGINI